

WHAT IS CLAIMED IS:

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A4
1. A communication system comprising:
    - a) at least one credit card sized wireless long-range communications device;
    - b) wherein the credit card sized wireless long-range communication device(s) communicate with a base station.
  2. The communication system of Claim 1, wherein the base station comprises a high temperature superconductivity receiver.
  3. The communication system of Claim 1, wherein the at least one wireless long-range communications device comprises:
    - a) a receiver;
    - b) an antenna;
    - c) a man machine interface;
    - d) a processor; and
    - e) a power supply.
  4. The communication system of Claim 3, wherein the credit card sized wireless long-range communications device further comprises a transmitter.
  5. The communication system of Claim 3, wherein the receiver comprises a frequency shift keying receiver.
  6. The communication system of Claim 3, wherein the receiver comprises a direct sequence spread spectrum modulator.
  7. The communication system of Claim 6, wherein the direct sequence spread spectrum modulator comprises differential phase shift keying.
  8. The communication system of Claim 3, wherein the man machine interface comprises a display.
  9. The communication system of Claim 8, wherein the display is a thin polymer emissive display.
  10. The communication system of Claim 8, wherein the display is capable of displaying graphical and textual information.
  11. The communication system of Claim 8, wherein the man machine interface further comprises at least one pushbutton.
  12. The communication system of Claim 3, wherein the power

supply comprises a primary battery.

13. The communication system of Claim 12, wherein the primary battery is a lithium non-rechargeable battery.

14. The communication system of Claim 3, wherein the power supply comprises a secondary battery.

15. The communication system of Claim 14, wherein the secondary battery is a lithium rechargeable battery.

16. The communication system of Claim 15, wherein the power supply further comprises:

- a) a constant current source charger; and
- b) a low dropout analog regulator.

17. The communication system of Claim 3, wherein the antenna is a monopole antenna.

18. The communication system of Claim 3, wherein the antenna is a dipole antenna.

19. The communication system of Claim 3, wherein the antenna is a patch antenna.

20. The communication system of Claim 3, wherein the system is a voice response architecture and further comprises:

- a) a microphone; and
- b) an integrated broadband processor.

21. The communication system of Claim 1, wherein the credit card sized wireless long range communication device(s) are flexible.

22. The communication system of Claim 1, wherein the credit card sized wireless long-range communication device(s) can communicate in the range of about 30 kilometers.

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